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APPLICATION NO. FILING DATE		FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO	
10/052,255	01/23/2002	Akihiko Ebina	111778	1930	
25944	7590 08/13/2003				
OLIFF & BERRIDGE, PLC			EXAMINER		
P.O. BOX 199 ALEXANDRI	228 A, VA 22320		GEYER, SCOTT B		
			ART UNIT	PAPER NUMBER	
		•	2829		
			DATE MAILED: 08/13/2003		

Please find below and/or attached an Office communication concerning this application or proceeding.

•		Application	No.	Applicant(s)				
Office Action Summary		10/052,255		EBINA ET AL.				
		Examiner		Art Unit				
	•		or .	2829	1			
	The MAILING DATE f this communication appears on the c ver sheet with the correspondence address							
Period for Reply								
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 2 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.  - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.  - If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.  - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.  - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133).  - Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).								
Status  1)  ☐ Responsive to communication(s) filed on 04 June 2003.								
1)⊠ 2a)□		b)☐ This action is no	on-final.					
3)⊠								
closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.  Disposition of Claims								
4) Claim(s) 1-15 is/are pending in the application.								
4a) Of the above claim(s) is/are withdrawn from consideration.								
5)⊠ Claim(s) <u>1-3,5,7,10 and 15</u> is/are allowed.								
6) Claim(s) is/are rejected.								
7) Claim(s) <u>4,6,8,9 and 11-14</u> is/are objected to.								
8) Claim(s) are subject to restriction and/or election requirement.								
	on Papers	Francisco						
9) The specification is objected to by the Examiner.								
10)⊠ The drawing(s) filed on <u>23 January 2002</u> is/are: a)□ accepted or b)⊠ objected to by the Examiner.								
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  11) The proposed drawing correction filed on is: a) approved b) disapproved by the Examiner.								
If approved, corrected drawings are required in reply to this Office action.								
12) The oath or declaration is objected to by the Examiner.								
Priority under 35 U.S.C. §§ 119 and 120								
13)⊠ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).								
a)⊠ All b)□ Some * c)□ None of:								
1.⊠ Certified copies of the priority documents have been received.								
	2. Certified copies of the priority documents have been received in Application No							
3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).  * See the attached detailed Office action for a list of the certified copies not received.								
14) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application).								
a) The translation of the foreign language provisional application has been received.								
15) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121.								
Attachmer	nt(s)		_					
2) Notice	ce of References Cited (PTO-892) ce of Draftsperson's Patent Drawing Review (PT mation Disclosure Statement(s) (PTO-1449) Pa		′ <del>=</del>	y (PTO-413) Paper N Patent Application (P				

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#### **DETAILED ACTION**

#### Election/Restrictions

1. The restriction requirement made in paper no. 7 is withdrawn due to the establishment of allowable subject matter in claim 1 as recited below.

## **Priority**

2. Receipt is acknowledged of papers submitted under 35 U.S.C. 119(a)-(d), which papers have been placed of record in the file.

#### Information Disclosure Statement

3. The references cited within the IDS, received on 1-23-02, have been considered.

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4. This application is in condition for allowance except for the following formal matters:

## **Drawings**

4A. Figure 16 should be designated by a legend such as --Prior Art-- because only that which is old is illustrated. See MPEP § 608.02(g). A proposed drawing correction or corrected drawings are required in reply to the Office action to avoid abandonment of the application. The objection to the drawings will not be held in abeyance.

# Specification/Abstract

4B. The disclosure is objected to because of the following informalities:

Page 5, line 22: change "manufacture" to -- manufacturing --.

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Appropriate correction is required.

4C. Applicant is reminded of the proper language and format for an abstract of the disclosure.

The abstract should be in narrative form and generally limited to a single paragraph on a separate sheet within the range of 50 to 150 words. It is important that the abstract not exceed 150 words in length since the space provided for the abstract on the computer tape used by the printer is limited. The form and legal phraseology often used in patent claims, such as "means" and "said," should be avoided. The abstract should describe the disclosure sufficiently to assist readers in deciding whether there is a need for consulting the full patent text for details. (emphasis added)

The language should be clear and concise and should not repeat information given in the title. It should avoid using phrases which can be implied, such as, "The disclosure concerns," "The disclosure defined by this invention," "The disclosure describes," etc.

The applicant should note that the abstract is approximately 220 words in length and is written in claim language form instead of narrative form.

#### Claim Objections

4D. Claims 4, 6, 8, 9, 11, 12, 13 and 14 are objected to because of the following informalities:

Claim 4, line 3: change "layers is" to - - layer is - - or change to - - layers are - -;

Claim 6, line 2: change "claims 1" to - - claim 1 - -;

Claim 8, line 3: change "layers is" to - - layer is - - or change to - - layers are - -;

Claim 9, line 2: change "claims 1" to - - claim 1 - -;

Claim 11, line 2: change "claims 1" to - - claim 1 - -;

Claim 12, line 3: change "wherein contact" to - - wherein the contact - -;

Claim 13, line 2: change "claims 1" to - - claim 1 - -;

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Claim 14, line 2: change "claims 1" to - - claim 1 - -.

Appropriate correction is required.

## Allowable Subject Matter

- 5. Claims 1-15 are allowed.
- 6. The following is a statement of reasons for the indication of allowable subject matter: applicant's independent claim 1 recites a method of manufacturing a semiconductor integrated circuit device including a memory cell array wherein an element isolation region is formed on the surface of a semiconductor substrate and a multitude of steps are performed including formation of insulating layers and conductive layers, masking, anisotropic etching, impurity doping and patterning to provide a structure with word gate and a control gate. The prior art of record and to the examiner's knowledge does not teach or render obvious, at least to the skilled artisan, the instant invention regarding the method of manufacturing a semiconductor integrated circuit device as recited by the particular stepwise method of applicant's sole independent claim 1.

The following references are cited as being related to applicant's invention: Shone et al. (6,521,495), Ebina et al. (6,518,124), Komori et al. (6,451,643), Ebina et al. (6,413,821).

# **Conclusion**

7. Prosecution on the merits is closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.

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A shortened statutory period for reply to this action is set to expire **TWO MONTHS** from the mailing date of this letter.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Scott B. Geyer whose telephone number is (703) 306-5866. The examiner can normally be reached on weekdays, between 10:00am - 6:30pm. E-mail: <a href="mailto:scott.geyer@uspto.gov">scott.geyer@uspto.gov</a>

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Kamand Cuneo can be reached on (703) 308-1233. The fax phone numbers for the organization where this application or proceeding is assigned are (703) 872-9318 for regular communications and (703) 872-9319 for After Final communications.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703) 308-0956.

SUPERISORY PATENT EXAMINER
TECHNOLOGY CENTER 2800
August 5, 2003